

AMENDMENTS TO THE CLAIMS

1. (Currently amended) An audiovisual (AV) data transmitter comprising:

a plurality of receiver key signals with each of which AV data including a voice and a picture is encrypted and each of which is set for ~~each~~ a single one of a plurality of AV data ~~receiver~~ receivers permitted to communicate with the AV data transmitter, wherein

the AV data transmitter selects a single one of the receiver key signals according to the single AV data receiver[[],] to which the AV data transmitter is to transmit the AV data, from among the plurality of receiver key signals as a data communication key signal, encrypts the AV data with the selected data communication key signal so that only the single AV data receiver to which the AV data transmitter is to transmit the AV data can decrypt the AV data, and transmits the AV data ~~to the AV data receiver~~.

2. (Currently amended) The AV data transmitter according to claim 1, wherein

when the AV data transmitter receives a changeover request signal for requesting that the data communication key signal be changed over to a different one of the receiver key signals ~~according to the AV data receiver from a different one of the AV data receiver receivers~~, the AV data transmitter determines that the different AV data receiver which has transmitted the changeover request signal is ~~the AV data receiver~~ permitted to communicate with the AV data transmitter, and

when the different AV data receiver is ~~the AV data receiver~~ permitted to communicate with the AV data transmitter, the AV data transmitter changes over the receiver key selected as the data communication key signal to the one receiver key signal ~~according to~~ of the different AV data receiver and transmits ~~the~~ AV data encrypted with the correspondingly changed data communication key signal to the different AV data receiver which has transmitted the changeover request signal.

3. (Currently amended) An AV data transmitter comprising:

an encryption unit which encrypts AV data including a voice and a picture;

a first key signal storage unit which stores a data communication key signal used when the encryption unit encrypts the AV data;

a transmission/reception unit which transmits the AV data and which ~~transmits/receives~~ transmits and receives data; and

a key signal changeover control unit which stores a plurality of receiver key signals set according to a plurality of AV data receivers permitted to communicate with the AV data transmitter, respectively, and which changes over a data communication key signal in the first key signal storage unit, wherein

when the transmission/reception unit receives a changeover request signal for requesting that the data communication key signal be changed over to one of the receiver key signals according to one of the AV data receivers from the one AV data receiver, the AV data transmitter determines that the one AV data receiver which has transmitted the changeover request signal is one of the AV data receivers permitted to communicate with the AV data transmitter, and

when the one AV data receiver is one of the AV data receivers permitted to communicate with the AV data transmitter, the key signal changeover control unit changes over the receiver key selected as the data communication key signal stored in the first key signal storage unit to the one receiver key signal according to the one AV data receiver.

4. (Original) The AV data transmitter according to claim 3, further comprising:

a first decryption unit which decrypts the data received by the transmission/reception unit with the data communication key signal stored in the first key signal storage unit, wherein

the changeover request signal is encrypted with the one receiver key signal according to the one AV data receiver which transmits the changeover request signal, and

by determining with which of the plurality of receiver key signals stored in the key signal changeover unit the first decryption unit can decrypt the changeover request signal received by the transmission/reception unit, the AV data transmitter determines whether the one AV data receiver which has transmitted the changeover request signal is one of the AV data receivers permitted to communicate with the AV data transmitter.

5. (Original) The AV data transmitter according to claim 3, further comprising:
 - a second decryption unit which decrypts the changeover request signal encrypted with a specific key signal common to the AV data transmitter and the AV data receivers permitted to communicate with the AV data transmitter, wherein
 - by determining whether the second decryption unit can decrypt the changeover request signal received by the transmission/reception unit with the specific key signal, the AV data transmitter determines whether the one AV data receiver which has transmitted the changeover request signal is one of the AV data receivers permitted to communicate with the AV data transmitter.
6. (Original) The AV data transmitter according to claim 3, wherein
 - when the AV data transmitter receives the changeover request signal and changes over the data communication key signal, the transmission/reception unit transmits a state change signal for changing an operation state of the one AV data receiver which includes the one receiver key signal that is to serve as the data communication key signal stored in the first key signal storage unit as the data communication key signal until changing over the data communication key signal.
7. (Original) The AV data transmitter according to claim 3, wherein
 - the transmission/reception unit receives, from one of the AV data receivers, a change request signal for requesting that the receiver key signals stored in the key signal changeover control unit be changed, and
 - when the AV data transmitter determines that the one AV data receiver which has transmitted the change request signal is one of the AV data receivers permitted to communicate with the AV data transmitter, the AV data transmitter changes the receiver key signal according to the one respective AV data receivers and stored in the key signal changeover control unit to the receiver key signal recognized by the changeover request signal.

8. (Original) The AV data transmitter according to claim 3, wherein
the AV data transmitter has a fixed mode in which the data communication key signal
stored in the first key signal storage unit cannot be changed over.

9. (Original) The AV data transmitter according to claim 8, wherein
assuming that a changeover determination signal for determining whether the data
communication key signal in the first key signal storage unit can be changed over is transmitted
from the one AV data receiver, and that

the transmission/reception unit receives the changeover determination signal,
when the changeover determination signal is transmitted from the one AV data receiver
permitted to communicate with the AV data transmitter and the AV data transmitter is not in the
fixed mode, the transmission/reception unit transmits a communication permission signal
indicating that the one AV data receiver can communicate with the AV data transmitter, and

when the changeover determination signal is transmitted from the one AV data receiver
permitted to communicate with the AV data transmitter and the AV data transmitter is in the
fixed mode, the transmission/reception unit transmits a communication prohibition signal
indicating that the one AV data receiver cannot communicate with the AV data transmitter.

10. (Original) The AV data transmitter according to claim 9, wherein
when the transmission/reception unit receives the changeover determination signal, the
AV data transmitter determines the AV data receiver that is currently transmitting the AV data
based on the data communication key signal stored in the first key signal storage unit and
transmits information on the one AV data receiver thus determined together with the
communication permission signal or the communication prohibition signal.

11. (Original) The AV data transmitter according to claim 9, wherein
when the transmission/reception unit receives the changeover determination signal and
the changeover determination signal is transmitted from an AV data receiver which is not
permitted to communicate with the AV data transmitter, the AV data transmitter transmits a non-

communication target signal indicating that the AV data receiver is not a communication target receiver.

12. (Original) The AV data transmitter according to claim 3, wherein the AV data transmitter sets an AV data transmission period in which the AV data is transmitted for each cycle, and receives the changeover request signal in a period other than the AV data transmission period in the cycle.

13. (Original) An AV data receiver comprising:
a receiver key signal with which received AV data that is transmitted from an AV data transmitter and that includes a voice and a picture is decrypted, wherein the AV data receiver transmits a changeover request signal for requesting that a key signal be changed over to the receiver key signal of the AV data receiver as a data communication key signal for encrypting the AV data, to the AV data transmitter which permits the AV data receiver to communicate with the AV data transmitter by storing the receiver key signal of the AV data receiver as one of a plurality of receiver key signals.

14. (Currently amended) An AV data receiver comprising:
a transmission/reception unit which receives encrypted AV data such as a picture or a voice and which transmits/receives transmits and receives data;
a first decryption unit which decrypts the AV data;
a first key signal storage unit which stores a receiver key signal with which the first decryption unit decrypts the AV data; and
a data generation unit which generates the data to be transmitted, wherein the data generation unit generates a changeover request signal for requesting that a key signal be changed over to the receiver key signal of the AV data receiver as a data communication key signal for encrypting the AV data, and the transmission/reception unit transmits the changeover request signal to the AV data transmitter which permits the AV data receiver to communicate with the AV data transmitter by storing the receiver key signal of the

AV data receiver as one of a plurality of receiver key signals.

15. (Original) The AV data receiver according to claim 14, further comprising:
an encryption unit which encrypts the signal generated by the data generation unit with the receiver key signal stored in the first key signal storage unit, wherein
the changeover request signal generated by the data generation unit is encrypted with the receiver key signal by the encryption unit and transmitted from the transmission/reception unit.

16. (Original) The AV data receiver according to claim 14, further comprising:
an encryption unit which encrypts the signal generated by the data generation unit with a specific key signal common to the AV data transmitter and the AV data receiver permitted by the AV data transmitter to communicate with the AV data transmitter, wherein
the changeover request signal generated by the data generation unit is encrypted with the specific key signal by the encryption unit and transmitted from the transmission/reception unit.

17. (Original) The AV data receiver according to claim 16, further comprising:
a second decryption unit which decrypts a signal other than the AV data received by the transmission/reception unit with the specific key signal.

18. (Original) The AV data receiver according to claim 14, wherein
when the data communication key signal is changed over in the AV data transmitter and the AV data receiver receives the AV data from the AV data transmitter before the data communication key signal is changed over, the transmission/reception unit receives a state change signal for changing an operation state of the AV data receiver from the AV data transmitter and the operation state of the AV data receiver is changed.

19. (Original) The AV data receiver according to claim 18, wherein
when the transmission/reception unit receives the state change signal, the AV data receiver controls an operation state of an external device including an AV data reproduction

apparatus, which reproduces the AV data and which is connected to the AV data receiver by a cable, to be changed.

20. (Original) The AV data receiver according to claim 14, wherein

when the AV data receiver is operated to be turned on, the data generation unit generates the changeover request signal, the transmission/reception unit transmits the generated changeover request signal, and an external device including an AV data reproduction apparatus, which reproduces the AV data and which is connected to the AV data receiver by a cable, is turned on.

21. (Original) The AV data receiver according to claim 14, further comprising:

a key signal generation unit which generates the receiver key signal, wherein

the receiver key signal generated by the key signal generation unit is applied to the data generation unit, the data generation unit generates a change request signal for requesting that the receiver key signal stored in the AV data transmitter be changed over to the receiver key signal generated by the key signal generation unit, and the transmission/reception unit transmits the generated change request signal.

22. (Original) The AV data receiver according to claim 14, wherein

the data generation unit generates a changeover determination signal for determining whether the data communication key signal of the AV data transmitter can be changed over, and the transmission/reception unit transmits the generated changeover determination signal.

23. (Original) The AV data receiver according to claim 22, further comprising:

a communication state determination unit which indicates that communication can be held when the transmission/reception unit receives a communication permission signal transmitted from the AV data transmitter and indicating that the communication can be held, and which indicates that the communication cannot be held when the transmission/reception unit receives a communication prohibition signal transmitted from the AV data transmitter and

indicating that the communication cannot be held.

24. (Original) The AV data receiver according to claim 22, wherein

when the transmission/reception unit receives a communication permission signal transmitted from the AV data transmitter and indicating that communication can be held, the AV data receiver controls an AV reproduction apparatus connected to the AV data receiver by a cable so as to display a notification that the communication can be held, and

when the transmission/reception unit receives a communication prohibition signal transmitted from the AV data transmitter and indicating that communication cannot be held, the AV data receiver controls the AV reproduction apparatus so as to display a notification that the communication cannot be held.

25. (Original) The AV data receiver according to claim 24, wherein

the transmission/reception unit receives information representing the AV data receiver to which the AV data transmitter is currently transmitting the AV data as well as the communication permission signal or the communication prohibition signal, and the AV data receiver controls the AV reproduction apparatus so as to display the AV data receiver to which the AV data transmitter is currently transmitting the AV data.

26. (Original) The AV data receiver according to claim 23, wherein

when the transmission/reception unit receives a non-communication target signal indicating that the communication is prohibited from the AV transmitter which has received the changeover determination signal, the communication state determination unit shows that the AV data receiver is a non-communication target receiver.

27. (Original) The AV data receiver according to claim 24, wherein

when the transmission/reception unit receives a non-communication target signal indicating that the communication is prohibited from the AV transmitter which has received the changeover determination signal, the AV data receiver controls the AV reproduction apparatus

so as to display the notification that the AV data receiver is a non-communication target receiver.

28. (Original) The AV data receiver according to claim 14, wherein

the AV data receiver sets an AV data transmission period in which the AV data is received for each cycle, and transmits the changeover request signal in a period other than the AV data transmission period in the cycle.

29. (Currently amended) An AV data wireless communication system comprising:

an AV data receiver storing a receiver key signal; and

an AV data transmitter which includes a plurality of receiver key signals with each of which AV data including a voice and a picture is encrypted and each of which is set for each- a single one of a plurality of AV data receiver receivers permitted to communicate with the AV data transmitter, which selects one of the receiver key signals according to the single one of the AV data receiver receivers to which the AV data transmitter is to transmit the AV data from among the plurality of receiver key signals as a data communication key signal, which encrypts the AV data with the selected data communication key signal so that only the single AV data receiver to which the AV data transmitter is to transmit the AV data can decrypt the AV data, and which transmits the AV data to the AV data receiver; and

an AV data receiver which decrypts the AV data to be received.

30. (Original) The AV data wireless communication system according to claim 29, wherein

the AV data receiver transmits a changeover request signal for requesting that the data communication key signal be changed over to one of the receiver key signals according to the AV data receiver,

when the AV data transmitter receives the changeover request signal, the AV data transmitter determines that the AV data receiver which has transmitted the changeover request signal is the AV data receiver permitted to communicate with the AV data transmitter,

when the AV data transmitter determines that the AV data receiver which has transmitted

the changeover request signal is the AV data receiver permitted to communicate with the AV data transmitter, the AV data transmitter changes over the receiver key selected as the data communication key signal to the one receiver key signal according to the AV data receiver, and

the AV data transmitter transmits the AV data encrypted with the correspondingly changed data communication key signal to the AV data receiver which has transmitted the changeover request signal.

31. (Original) The AV data wireless communication system according to claim 30, wherein

the changeover request signal is encrypted with the one receiver key signal.

32. (Original) The AV data wireless communication system according to claim 30, wherein

the changeover request signal is encrypted with a specific key signal common to the AV data transmitter and the AV data receiver permitted by the AV data transmitter to communicate with the AV data transmitter.

33. (Original) The AV data wireless communication system according to claim 29, wherein

when the AV data transmitter changes over the receiver key selected as the one data communication key signal to a first receiver key signal according to a first AV data receiver which has transmitted the changeover request signal,

then the AV data transmitter transmits a state change signal for changing an operation state of a second AV data receiver to the second AV data receiver so as to change the operation state of the second AV data receiver according to a second receiver key signal used as the data communication key signal before changeover, and

the second AV data receiver receives the state change signal and the operation state of the second AV data receiver is changed.

34. (Original) The AV data wireless communication system according to claim 33, wherein

by turning on the first AV data receiver, the changeover request signal is transmitted.

35. (Original) The AV data wireless communication system according to claim 29, wherein

the AV data receiver changes the one receiver key signal, generates and transmits a change request signal, including the receiver key signal as information, for requesting that the one receiver key signal in the AV data transmitter be changed, and

when the AV data transmitter receives the change request signal, the AV data transmitter changes the one receiver key signal stored according to the AV data receiver which has transmitted the change request signal to the receiver key signal determined by the change request signal.

36. (Original) The AV data wireless communication system according to claim 29, wherein

the AV data receiver transmits a changeover determination signal for determining whether the data communication key signal can be changed over, and

when the AV data transmitter which has received the changeover determination signal determines that communication can be held, the AV data transmitter transmits a communication permission signal indicating that the communication can be held, and when the AV data transmitter which has received the changeover determination signal determines that communication cannot be held, the AV data transmitter transmits a communication prohibition signal indicating that the communication cannot be held.

37. (Original) The AV data wireless communication system according to claim 36, wherein

when the AV data receiver, which has transmitted the changeover determination signal, is not the AV data receiver permitted to communicate with the AV data transmitter, the AV data

transmitter which has received the changeover determination signal transmits a non-communication target signal indicating that the AV data receiver is not a communication target receiver.

38. (Currently amended) The AV data wireless communication system according to claim 29, wherein

an AV data transmission period in which the AV data is transmitted/received for each cycle is set, and

the changeover request signal is ~~transmitted/received~~ transmitted and received in a period other than the AV data transmission period in the cycle.

39. (Currently amended) An AV data transmitter storing a plurality of encryption keys for encrypting AV data, each of said encryption keys corresponding to one of a plurality of AV receivers, wherein in response to a request from a first one of the plurality of AV receivers, the AV data transmitter selects from the plurality of encryption keys an encryption key corresponding to ~~a-~~ the first one of the selected AV ~~receiver~~ receivers, encrypts the AV data using the selected encryption key, and transmits the encrypted data to the first one of the selected AV ~~receiver~~ receivers.

40. (Previously presented) An AV data receiver storing an encryption key for decrypting AV data and including a changeover request transmitter for sending a changeover request signal requesting that an AV transmitter adapted to send data encrypted with one of a plurality of encryption keys send data encrypted with said stored encryption key.

41. (Currently amended) An AV data wireless communication system comprising:
a first AV data receiver storing a first encryption key;
a second AV data receiver storing a second encryption key; and
an AV data transmitter storing said first and second encryption keys;
wherein ~~when~~ the AV data transmitter selects one of the first and second AV data receivers, - encrypts AV data using ~~the one of the first and second encryption keys - key~~

corresponding to the selected one of the first and second AV data receivers receiver and receives a request from the second AV data receiver to change to the second encryption key, the AV data transmitter ceases to encrypt with the first encryption key and begins to encrypt with the second encryption key, and transmits the encrypted AV data encrypted with the second encryption key.

Claim 42 (Cancelled).

43. (Currently amended) The method of claim 42 comprising the additional steps of:
A method of transmitting AV data comprising the steps of:
providing an AV data transmitter storing a plurality of encryption keys for encrypting AV
data, each of the encryption keys corresponding to one of a plurality of AV receivers;
selecting one of the plurality AV receivers;
selecting an encryption key corresponding to the selected AV receiver;
encrypting AV data with the selected encryption key;
transmitting the encrypted data to the selected AV receiver;
receiving a request to change the encryption key used to encrypt AV data to a different encryption key;
determining whether the different encryption key is one of the stored plurality of encryption keys; and
if the different encryption key is one of the stored plurality of encryption keys, changing the encryption key used to encrypt data to the different encryption key, encrypting AV data using the different encryption key and transmitting the encrypted data.

Claim 44 (Cancelled).

45. (Currently amended) The method of claim 44 claim 43 including the additional step of sending a state change signal from the AV transmitter to change a state of the one of the plurality of AV receivers that sent the encrypted request that the AV transmitter change the encryption key used to encrypt data to the different encryption key.

46. (Currently amended) The method of ~~claim 42~~ claim 43 including the additional steps of:

~~receiving a request to change the encryption key used to encrypt AV data to a different encryption key;~~

~~determining whether the different encryption key is one of the stored plurality of encryption keys;~~

determining whether the AV transmitter is in a fixed state in which the encryption key used to encrypt AV data cannot be changed or in a non-fixed state in which the encryption key used to encrypt AV data can be changed upon the receipt of a request that the AV transmitter change the encryption key used to encrypt data; and

if the AV receiver is in the non-fixed state and the different encryption key is one of the stored plurality of encryption keys, changing the encryption key used to encrypt data to the different encryption key, encrypting AV data using the different encryption key and transmitting the encrypted data.

47. (Previously presented) The method of claim 46 including the additional step of, if the AV transmitter is in the fixed state, transmitting a communication prohibition signal indicating that the AV transmitter cannot change encryption key used to encrypt AV data.